

Fig. 1

CAAGGAGATGGCGCCCAACAGTCCCCGGGCCACGGGGCCTGCCACCATACCCAGCCGAAACAAGCGCTC
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 CTGTGGCGCCGGTGATGCCGGCCACGATGCGTCCGGCGTAGAGGATCGAGATCTCGATCCCGGAAATTA
 ATAGCACTCACTATAGGGGAATTGTGAGCGGATAACAATCCCCCTCAGAAATTAATTTGTTTAACTTTA
 AGAAGGAGATATACATATGGGCGCCGCAACCCGGTGACCGCCCGCTGGCGGGCAGCTATCTGGAAAGGTG
 CTGGCCAGCGGAAGGCCAGACGGTGGCCGCAAGCGAGGTGCTGCTGATTCTGGAAGGCATGAAGATGGAAA
 CCGAAATCTCGCGCCCGCGCAGGCCGGGACCGTGC GCGGTTATCGCGGTGAAGCGCCGACGCGGTGGCGGT
 CGGCGACACCCCTGATGACCTGGCGGGCTCTGGATCCGATCTGTACGACGATGACGATAAGGGAAATTATC
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 ACCCGAGCTTTACACTTTATGCTTCCGGCTCGTATAATGTGGGATTTGAGTTAGGATAGCCGCGAGAT
 TTTCCAGGACTAAGGAAGCTAAAAATGGAGAAAAAATCACTGGATATACCACCGTTGATATATCCCAATG
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 GCATTTACGGCCTTTTAAAGACCGTAAAGAAAAATTAAGCACAAAGTTTATCCGGCCCTTTATTCACATTC
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 GCGGACAAGGCTGTGATGGCGCTGGCGATTACGGTTTCATCATGCGCTCTGTGATGGCTTCGATGTCGGCA
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 GCTGGAAAGCGGAAATCAGGAAGGGATGCGTGAAGTGCGCCGGTTTATTGAAATGAACGGCTCTTTGCG
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 GTTTGTGGATGTAGCAGTGATATTTGACACGCCCGGCGACGGATGGTGATCCGCCCTGGCCAGTGCA
 CGTCTGCTGTAGATAAAGTCTCCCGTGAACTTTACCCGGTGGTGCATATCGGGGATGAAGAGCTGGGCGCA
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 TGGAGGCGGATAAAGTTGCAGGACCACTTCTCGCTCGGCCCTTCCGGCTGGCTGGTTTATGCTGATAA

Fig. 2A

ATCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCCCGT
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Fig. 2B

AATAACGCCGGAACATTAGTGCAGGCAGCTTCCACAGCAATGGCATCCTGGTCATCCAGCGGATAGTTAA
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Fig. 2C

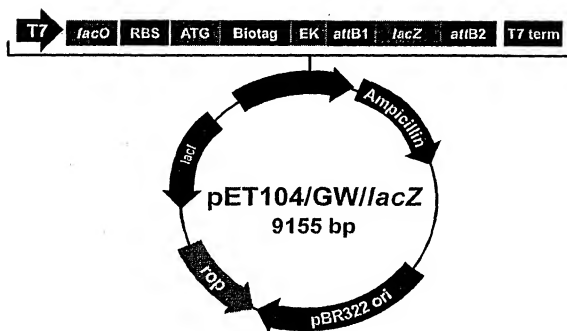


Fig. 3

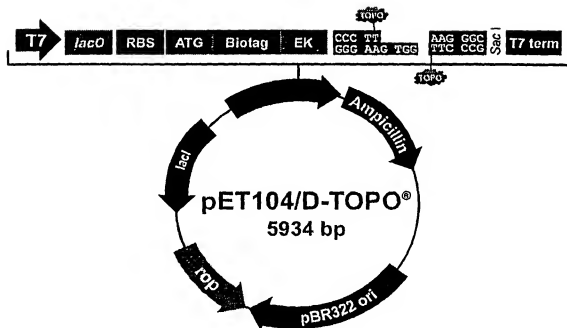


Fig. 4

CAAGGAGATGGCGCCCAACAGTCCCCGGCCACGGGGCTGCCACCATACCCACGCCGAAACAAGCGCTC
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 CGCGGCACCCCTGATGACCTGGCGGGCTCTGGATCCGATCTGTACGACGATGACGATAAGGGAATTGAT
 CCGTTCACCAAGGCGAGCTCAGATCCGGCTGCTAACAAAGCCGGAAGGAAGCTGAGTTGGCTGCTGCC
 ACCGCTGAGCAATATAGCATAAACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTTTCTGCTGAAG
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Fig. 5A

ATGGATGCGGCGGGACCAAGAGAAAAATCACTCAGGGTCAATGCCAGCGCTTCGTTAATACAGATGTAGGT
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Fig. 5B

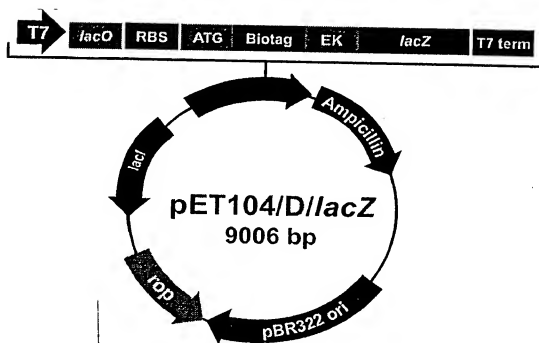


Fig.6

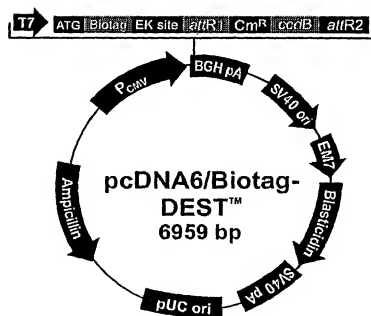


Fig.7

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 AACAGGAGCTGGTGAATGCAGTTTAAAGTTTTACACCTATAAAAGAGAGACGCTTATCGTCTGTTTGTG
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 TGTCAGATAAAGTCTCCCGTGAACTTTACCCGCTGGTGATATCGGGGATGAAAGCTGGCGCATGATGAC
 CACCGATATGGCCAGTGTGCCGCTTCCGTTATTCGGGGAAGAAGTGGCTGATCTCAGGCACCGCGAAAT
 GACATCAAAAACGCCATTAACTGATGTTCTGGGGAATATAAATGTCAAGCTCCGTTATACACAGCCAGT
 CTGCAGTGCAGCATATGACTGGATATGTTGTGTTTTACAGTATTATGTAGTCTGTTTTTATGCAAAA
 TCTAATTTAATATTGATATTATATCACTTTTACGTTTCTCGTCACTGTTCTGTACAAGTGATTAAGCGCGC
 AATTAATTAAGATCTAGAGGGGCGGTTTTAAACCCGCTGATCAGCCTCGACTGTGCTTCTAGTTGCCAGC
 CATCTGTGTTTTCGCCCTCCCCCGTCCCTTCCCTGACCCGGAAGGTGCCACTCCCACTGCTCTTCTCTA
 ATAAAATGAGGAAATTCGATCGCATTTGTGTAGTAGGTGTCATTCTATTCTGGGGGGTGGGGTGGGGCAG
 GACAGCAAGGGGAGGATTTGGGAAGACAAATGACAGGCAATGCTGGGATGCGGTGGGCTCTATGGCTCTGC
 AGCGGAAAGAACACAGCTGGGGCTATAGGGGATATCCGACGCGCCCTGTAGCGCGCATTAAGCGCGCG
 GGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCTCTTCGCTTTC
 TTCCTCTCTTCTTCGCGCATTTTCGCCGCTTTCGCCGCTCAAGCTCTAAATCGGGGATCCCTTTAGGAT
 TCCGATTTAGTGCTTTACGGCACCTCGACCCCAAAAAAATTGATTAGGGTGATGGTTCACGTAGTGGGCC
 ATCGCCTGATAGACGTTTTTCGCCCTTTGACGTTGGAGTCCAGCTCTTTAATAGTGGAATCTGTGTT

Fig.8A

CAAACTGGAACAACTCAACCCCTATCTCGGTCTATTCTTTGATTATTAAGGGGATTTGGGGATTCGG
 CCTATTGGTTAAAAAATGAGCTGATTTAACAAAAATTTAACCGGAATTAATTTCTGTGAATGTGTGCA
 TTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGGCAGGCAAGATGCAAAAGCATGCATCTCAATTAGTCA
 GCAACCCAGTGTGGAAAGTCCCCAGGCTCCCCAGGCAGGAGATGCAAAAGCATGCATCTCAATTAGT
 CAGCAACCATATGTCGCCGCCCTAACTCCGCCCATCCCCGCCCTAACTCCGCCAGTTCGCCCCATTCG
 GCCCATGGCTGACTAATTTTTTTTATTATGACGAGGCGGAGGCCGCTCTGCCTCTGAGCTATTCCAG
 AAGTAGTAGGAGGCTTTTTTGGAGGCTTAGGCTTTTGCAAAAGCTCCGGGAGCTGTATATCCATTT
 TCGGATCTGATCAGCAGCTGTTGACAATTAATCATCGGCATAGTATATCGGCATAGTATAATACGCAAG
 GTGAGGAATCAACCATGGCCAAAGCCTTTGTCTCAAGAAGAATCCACCCCTATTGAAAGGCAACGGCTA
 CAATCAACAGCATCCCCATCTCTGAAGACTACAGCGTCGCCAGCGCAGCTCTCTAGCGACAGCGGCAT
 CTTCACTGTGTCAATATATATCATTCTACTGGGGACCTTTGTGCAAGACTCTGGTGTCTGGGCATGCT
 GCTGCTCGGCAGCTGGCAACCTGACTTGTATCGTCGCGATCGGAATGAGAACAGGGGCATCTTGAGCC
 CCTCGGACGCTGCCGACAGGTGCTTCTCGATCTGCATCTCGGATCAAGGCCATAGTGAAGGACATGA
 TGGACAGCCGACGGCAGTTGGGATTCGTGAATTGCTGCCCTCTGGTATGTGTGGGAGGGCTAAGCACTT
 CGTGGCGGAGGAGCAGGACTGACACGTGCTACGAGATTCGATTCACCGCGCCGCTCTCATGAAAGTTTG
 GGCTTCGGAATCGTTTTCCGGGACGCCGGCTGGATGATTCCTCCAGCGGGGGATCTCATGTCGGATGCT
 TCGGCCACCCCAACTGTTTATTGACGCTTATAATGGTTACAAATAAGGCAATAGCATCACAATTTAC
 AAATAAAGCAATTTTTTCACTGCATTCTAGTTGGTTTTGCTCAAACTCATCAATGTATCTTATCATGTC
 TGTATACCGTCGACCTCTAGCTAGAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAATTTGTT
 TCCGCTCAACAATCCACACAACATACGAGCGGGAAGCATAAAGTGAAGGCTGGGGTGCTAATGAGT
 GAGTCAACTACATTAATTTGCTTGGCTCACTGCCGCTTCCAGTCGGGAAACCTCTGTCGCCAGCTG
 CATTAAATGAATCGGCCAACCGCGGGGAGAGCGGTTTGGCTATTGGGCGCTCTTCGCTTCTCGCTCA
 CTGACTCGCTCGGCTCGGCTGTTCCGGCTCGCGCGAGCGGTATCAGCTCACTCAAAAGGCGGTATACGGTT
 ATCCAGCAATCAGGGGATAACGCAAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACGCT
 AAAAGCCGCGCTGTGCGGCTTTTCCATAGGCTCCGCGCCCTGACGAGCATCACAATAATCCAGCT
 CAAGTCAGAGTGTGCGAAACCCGACAGGACTATAAAGTACCAGGCGTTTCCCTCTGGAAGCTCGCTGT
 GCGCTCTCTGTTCGACCCCTGCCGCTTACCGGATACTGTGCGCCTTCTCCCTTCGGGAAGCGTGGCG
 CTTTCTCAATGCTCAGCGTGTAGTATCTCAGTTCCGGTGTAGTGTGCTCGCTCCAGCTGGGCTGTGTG
 AGAACCCCCCGTTTCAGCCCGACCGCTGCGCTTATCCGGTAACATATCGTCTTGAGTCCCAACCCGGTAAG
 ACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGCGGTGCT
 ACAGAGTTCTTGAAGTGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGCTATCTGCGCTCTGC
 TGAAGCCAGTTACCTTCGGAATAAGAGTTGGTAGCTCTTGATCCGGCAACAAACCCCGCTGGTAGCGG
 TGGTTTTTTTTTTGTCGAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTT
 TCTACGGGGTCTGACGCTCAGTGGAAACGAAACTCAGCTTAAGGGATTTTGGTCAATGAGATATACAAAA
 GGATCTTCACTAGATCCTTTTAAATTAATAATGAAGTTTTAAATCAATCTAAAGTATATATGATTAAC
 TTGCTTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTCTGCTCATCC
 ATAGTTGGCTGACTCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGTG
 CAATGATACCGCGAGACCTCAGCTCACCGGCTCCAGATTATCAGCAATAAACAGCAGCAGCGGAAGGGC
 CGAGCGCAGAAGTGGTCTGCAACTTTATCCGCTCCATCCAGTCTATTAAATTTGTCGGGGAAGCTAGA
 GTAAGTAGTTCGCGAGTTAATAGTTTGGCAGAGTGTGTCATTTGCTACAGGCATCGGGTGTCAAGCT
 CGTGGTTTTGGTATGGCTTATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTT
 GTGCAAAAAGCGGCTAGCTCCTTCGGCTCCCGATCGTGTGCAAGTAGTAATTTGGCGCAGGTGTATCA
 CTCATGGTTATGGCAGCACTGCATAATCTCTTACTGTATGCCATCCGTAAGATGCTTTTCTGTGACTG
 GTAGATCTCAACCAAGTCAATCTGAGAATAGTGTATGCGGGCAGCGAGTTGCTCTGCCCCGCGCTCAAT
 ACGGGATAATACCGCGCCACATAGCAGAATCTTAAAGTGCTCATCATTTGGAACCGTTCTTCGGGGCGA
 AAATCTCAAGAGTCTTACCCTGTTGAGATCCAGTTCGATGTAAACCCATCGTGCACCCCACTGATCT
 CAGACTCTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCCAAAAAAGGG
 AATAAGGGCGCAGGAAATGTTGAATACTCATACTCTTCTTTTCAATATATTGAAGCAATTATCAG
 GGTATTGTCTCATGAGCGGATACATATTGAATGTATTAGAAAAATAACAAATAGGGGTTCGCGCA
 CATTTCCCGGAAAGTGCCACCTGACGTC

Fig. 8B

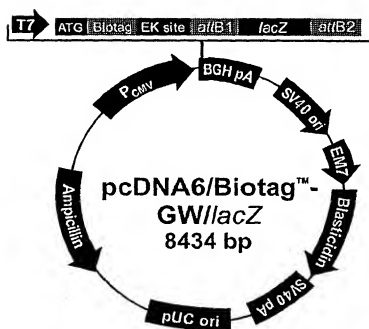


Fig. 9

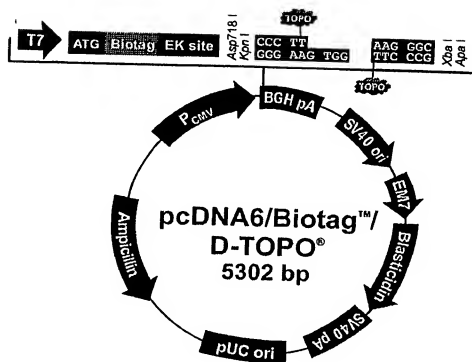


Fig.10

GACGGATCGGGAGATCTCCCGATCCCCTATGGTGCAGCTCTCAGTACAAATCTGCTCTGATGCCGCATAGTT
 AAGCCAGTATTCTGCTCCCTGCTGTGTGTGGAGGTGCGTGAAGTGTGCGGAGCAAAATTTAAGCTACA
 ACAAGGCAAGGCTTGACCGCAATTTGCATGAAGAATCTGCTTAGGGTTAGGCGTTTTTGCCTGCTTCGGC
 ATGTACGGGCCAGATATACCGGTTGACATTTGATTGACTAGTTATTAATAGTAAATCAATTACGGGGT
 ATTTAGTTCATAGCCCATATGGAGTTCCCGGTTACATAAATACGGTAATGGCCCGGCTGGCTGACCG
 CCCAACGACCCCGGCCATTTGACGTCAATATGACGTATGTCCCATAGTAACGCCAATAGGGACTTTCC
 ATTGACGTCAATGGGTGGACTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCC
 AAGTACGCCCTTATTGACGTCAATGACGGTAAATGGCCCGCTGGCATTTAGCCAGTACATGACCTTA
 TGGGACTTTCTACTTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGTATGCGGTTTTGGC
 AGTACATCAATGGCGGTGGATAGCGGTTTGACTCACGGGGATTTCGAAGTCTCCACCCCATTTGACGTGAA
 TGGGAGTTTGTTTGGCACAAATAACGGGACTTTCCAAAATGTCTGAACACTTCGCCCATTCAGCG
 CAAATGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCTCTGGCTAAGTACAGAACCCA
 CTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAGCTGGCTAGCGTTTAAACTT
 AAGCTTACCATGGCGCCCGCACCCCGGTGACCGCCCGCTGCGGGGCACATATCTGGAAGTGTCTGGCA
 CGGAAGCGCAGACGGTGGCGCAGGCGAGGTGCTGCTGATTCTGGAAGCCATGAAGATGGAAACCGAAAT
 CGCGCGCGCAGCTCCCGGACCGTGCCTGGTATCGCGGTGAAGCGCGCAGCGGTGGCGGTGCGGAC
 ACCCTGATGACCTCGCGGGCTCTGGATCCGATCTGTACGACGATGACGATTAAGGTACTAGGATCCAGT
 GTGGTGAATTTGATCCCTTACCAAGGGCGTGCAGTCTAGAGGGCCCGTTAAACCCCGCTCATGACGCTC
 GACTGTGCTTCTAGTTGCGACCATCTGTTGTTTGGCCCTCCCGCGTGCCTTCTTACCCCTGGAAGGT
 GCCATCCCACTGTGCTTTCTCAATAAAATGAGGAAATTGCACTCGCATTTGCTAGGTAGGTGCTATTCTA
 TTCTGGGGGGTGGGTGGGGCAGGACAGCAAGGGGGAGGATTGGGAAGACAAATAGCAGGCATCTGGGGA
 TGGCTGGGCTCTATGGCTCTGAGGCGGAAAGAACACAGCTGGGGCTCTAGGGGTCTATCCCAAGCGGCC
 TGTAGCGGCGCATTAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGGCC
 TAGCGCCGCTCTCTTCGCTTCTTCCCTTCTCTTCTCGCCACGTTCCCGGGCTTTCCCGCTCAAGCTT
 AAATCGGGGCATCCCTTTAGGGTTCGATTTAGTGCTTTACGCGACCTCGACCCCAAAAACCTTGATTAG
 GGTGATGGTTACAGTAGTGGGCGCATCGCCCTGATAGACGGTTTTTTCGCCCTTTGACGTTGGAGTCCAGT
 TCTTTAATAGTGGACTCTGTTCCAAACTGGAACAACTCAACCCATCTCTCGGTCTATTCTTTGATTT
 ATAAGGGATTTTGGGGATTTCCGGCTATTGGTTAAAAAATGAGCTGATTTAAACAAAAATTTAAGCGGAAT
 TAATTTCTGGGAATGTGTGTCAGTTAGGGTGTGGAAGTCCCGAGGCTCCCGCAGGCGAGCAAGTATGC
 AAAGCATGCATCTCAATTAGTCAGCAACCAAGGTGTGGAAGTCCCGAGGCTCCCGCAGCAGGCAAGTAT
 GCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCTAACTCCGCCCATCCCGCCCTTAAT
 CGGCCGATTTCCGCCCATTTCCGCCCATGGCTGACTAATTTTTTTATTTATGACAGAGGCGGAGGCGC
 CCTCTGCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCGCTAGGCTTTTGCAAAAAGCT
 CCCGGGAGCTTGATATCCATTTTCGGATCTGATCAGCAGCTGTTGACAATTAATCATCGGCATAGTATA
 TCGGCATAGTATAATACGACAAGGTGAGGAACTAAACCATGGCCAAAGCTTTGTCTCAAGAAGAATCCAC
 CCTCATTTAAAGAGCAGCGCTACATCAACAGCATCCCCATCTCTGAAGACTACAGCGTCGCCAGCGCA
 GCTCTCTACGGCAGCGCCCGCATCTTCACTGGTGTCAATGTATCATTTTACTGGGGACCTTGTGCGAG
 AACTCGTGGTCTGGGCATCTGCTGCTGCGGCAGCTGGCAACCTGACTTGTATCGTCGGATCGGAA
 TGAGAACAGGGGCATCTGAGCCCTGCGGACGGTCCGACAGGTGCTTCTGATCTGCATCTCGGATC
 AAAGCCATAGTGAAGGACATGTATGGACAGCGGACGGCAGTTGGGATTCGTGAATTTGCTGCCCTCTGSTT
 ATGTGTGGGAGGCTAAGCACTTCGTGGCGGAGGAGCAGGATGACACGTGCTACAGATATTTCCGATTTCA
 CGCGCGCTCTATGAAGAGTTGGGCTTCGGAATCGTTTTCCGGGACCGCGGTGGATGATCTCCACGG
 CGGGGATCTCATGCTGGAAGTTCTTCGCCACCCCAACTTGTTTATTGCAGCTTATAATGGTTACAAATAA
 AGCAATAGCATACAAATTTTACAAATAAAGCATTTTTTCACTGCTATTCTAGTGTGCTTGTCCAAAGT
 TCAATCAATGTATCTTATCATGCTGTATACCGTGCACCTCTAGCTAGAGCTTGGCGTAATCATGGTCTA
 GCTGTGTTTCTGTGTAATTTGTTATCCGCTCACAATTTCCACACAATACGAGCGGGAAGCATAAAGGT
 AAAGCTGGGGTGCTCAATGAGTGAGCTAACTCAATAATTGCGTTTGGCTGCTCACTGGCCCTTTCCAGT
 CGGGAACTCTGTGCGCAGCTGATTAATGAATCGGCCAACGCGGGGAGAGGCGGTTTGGCATTTGG
 GCGCTCTTCGCTTCTCGCTCACTGACTCGCTGCGCTCGGTGCTTGGCTGCGCGCAGCGGTATCAGCT
 CACTCAAAGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGAGGAAGAATGTGAGCAAAAG

Fig. 11A

GCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGA
 CGAGCATCAAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACGAGACTATAAAGATACCGAGCG
 TTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCCTGCCGCTTACCGGATACCTGTCCCGCT
 TTCTCCCTTCGGGAAGCGTGGCGCTTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCCGGTGTAGGTCGT
 TCGCTCCAAGCTGGGCTGTGTGCACGAACCCCGCTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTAT
 CGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCA
 GAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGAC
 AGTATTGTGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGC
 AAACAACCAACCGCTGGTAGCGGTGGTTTTTTTGGTTTGAAGCAGCAGATTACGCCGAGAAAAAAGGAT
 CTCAGAAGATCCTTTGATCTTTCTACGGGGTCTGACGCTCAGTGGAAACGAAAACTCACGTTAAGGGAT
 TTTGGTCATGAGATTATCAAAAAGGATCTTCACTAGATCCTTTAAATTAATAAGTATTAATCA
 ATCTAAAGTATATATAGTAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAG
 CGATCTGTCTATTTCGTTTCATCCATAGTTGCCTGACTCCCGCTCGGTAGATAACTACGATACGGGAGGG
 CTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCAGCTCACCGGCTCCAGATTATCAGCA
 ATAAACCAGCCAGCCGAAGGGCCGAGCGCAGAAGTGGTCTGCAACTTTATCCGCTCCATCCAGTCTA
 TTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTGCCAGTTAATAGTTTGCAGCAAGCTGTGTGCCATTGC
 TACAGGCATCGTGGTGTACAGCTCGTCGTTGGTATGGCTTCATTAGCTCCGGTTCQCAAGCATCAAGG
 CGAGTTACATGATCCCCCATGTTGTGCAAAAAGCGGTTAGCTCCTTCGGTCTCCGATCGTTGTGAGAA
 GTAAGTTGGCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTGATGCCATC
 CGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGATGCGGCGACCG
 AGTTGCTCTTGCCCGGGCTCAATACGGGATAATACCGCGCCACATAGCAGAACCTTTAAAAAGTGCTCATCA
 TTGGAACAGCTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTTCATGTAAACC
 CACTCGTGCAACCAACTGATCTTACGCATCTTTTACTTTTCCACAGCGTTCTGGGTGAGCAAAAACAGGA
 AGGCCAAATGCGCAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTCTCTTTTTC
 AATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAA
 TAAACAAATAGGGGTTCCGCGCACATTTCCCGAAAAAGTGCCACCTGACGTC

Fig. 11B

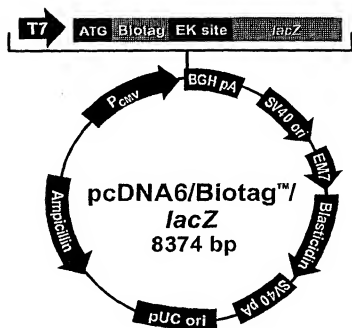


Fig. 12

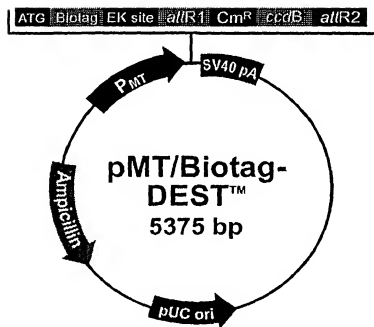


Fig.13

TCGCGCGTTCGCGGTGATGACGGTGAAAAACCTCTGACACATGCAGCTCCCGGAGACGGTCACAGCTTGTCT
 GTAAGCGGATGCCGGGAGCAGACAAGCCCGTCAGGCGCGCTCAGCGGGTGTGGCGGGTGTGCGGGCTGG
 CTTAACTATGCGGGATCAGAGCAGATTGTACTGAGAGTGCAACATATGCGGTGTGAATACCCGACAGAT
 GCGTAAGGAGAAATACCCGATCAGGCGCCATTTCGCCATTTCAGGCTGCGCAACTGTGGGAAGGGCGATC
 GGTGGCGGCTCTTCGCTATTACGCCAGCTGGCGAAAGGGGGATGTGCTGCGAAGGGCGATTAACTTGGGTA
 ACGCGAGGGTTCCTCCAGTACGACGTTGTAAACGACGCGGCAGTGCCAGTGAATTAATTGCTTGCAGGA
 CCGAATGTGGTCCCGATGTGACTAGCTCTTTGCTGCAAGGCGCTCTATCCTCTGGTTCGGAATAGAGAC
 CCGAACTCCGCGCCCCCACCACCGCCACGCCACCCCATACATATGTGTTACGAAGTAAGAGCTGCTCG
 GCATGCCCATGTGTCGCCACCAAGAGTTTTCATCCATACAAGTCCCAAAGTGGAGAACCCGAAACCAAT
 TCTTCGCGGGCAGAACAAAGCTTCTGCACACGCTCCACTCGAATTTGGAGCCGCGCGGCTGTGCAAA
 AGAGGTGAATCGAACGAAAGACCCGTGTGTAAGCCCGCTTCCAAAATGTATAAAACCGAGAGCATCTG
 GCCAATGTGCATCAGTTGTGGTCAGCAGCAAAATCAAGTGAATCATCTCAGTGCACAAAGAGGGGGATC
 TAGCGTTTAAACTTAAGCTTACCATTGGCGCGCGCACCCCGGTGACCGCCCGCTGGCGGGCAGCTATCTG
 GAAGGTGCTGGCCAGCGAAGGCCAGACGGTGGCCGCGAGGCGAGGTGCTGCTGATTCTGGAAGCCATGAAG
 ATGGAACCGAAATCCGCGCCGCGCAGGCGGGACCGTGGCGGATATCGCGGTGAAAGCCGGCGACGCGG
 TGCGGCTGGCGCACACCTGATGACCTGGCGGGCTCTGGATCCGATCTGTACGACGATGACGATAAGGT
 ACATCAACCAAGTTTGTACAAAAGCTGAACGAGAAACGTAATAATGATATAAATCAATATAATTAAT
 TAGATTTCGATAAAAAACAGACTACATAATACTGTAAACACACATATCCAGTCACTATGGCGCCCGC
 ATTAGCAGCCCCAGGCTTTACACTTTATGCTCCGGCTCGTATAATGTGGATTTTAGATTAGGATCCG
 CGAGATTTTCAGGAGCTAAGGAAGCTAAAAATGGAGAAAAAACTCAGTGATATACCCAGTGTGATAT
 CCGAATGGCATGCTAAAGAACATTTTGAGGCATTTTCAGTCAAGTCTCAATGTACCTATAACAGCAGCGT
 TCAGTGGATATTAAGCGCTTTTAAAGACCGTAAAGAAAAATAGGCAAGTTTATCCGCGCTTTATT
 CACATTTCTGCCGCCCTGATGAATGCTCATCCGGAATTCGATAGGCAATGAAAGACCGTGAGCTGGTGA
 TATGGGATAGTGTTCACCCCTGTGTACACCGTTTCCATGAGCAAACTGAAACGTTTTCATCGCTCTGGAG
 TGAATACACGACGATTTCGCGCAGTTTCTACACATATATTGCAAGATGTGGCGCTTACCGGTGAAAC
 CTGGCCTATTTCCCTAAAGGGTTTATTGAGAATATGTTTTGCTCTCAGCAATCCCTGGGTGAGTTTCA
 CAGCTTTTGATTTAAAGTGGCCAAATATGGACAACCTTCTCGCCCCGTTTTACCATTCGCGCAATATTA
 TAGCGAAGGCGACAGAGTGCTGATGCGCGTGGCGATCAGGTTTCATCATGCCGTCTGTGATGGCTTCCAT
 GTGCGCAGATTCGTTAATGAATTACAAACAGTACTGCGATGAGTGGCAGGCGGGGCGTAAACGCGTGAAT
 CCGGCTTACTAAAAGCCGATATAACAGTATGCGTATTTCGCGGCTCGCGAACCCGGTGTATACCCGAAGTAT
 GTCAAAAAGAGGTGTGCTATGAAGCAGCGTATTACAGTGAACGTTGACAGCGACAGCTATCAGTTGGCTCA
 AGGCATATATGATGTCAATATCTCCGGTCTGGTAAGCACAACTATGCAAGATGAAGCCCGCTGCTGCGGT
 GCCGAACGCTGGAAAGCGGAAATCAGGAAGGGATGGCTGAGTGCGCCGGTTTATTGAAATGAACGGCT
 CTTTGTGCTGACGAGAACCGGACTGGTGAAATGCAAGTTTAAAGTTTACACCTATAAAAGAGAGAGCGGCT
 ATCGCTCTGTTTGGATGTACAGAGTGATATTATTGACACGCCCGGGCGACGGATGGTGATCCCCCTGGC
 CAGTGACCTCTGCTGTGAGATAAAGTCTCCCGTGAACTTTACCCGGTGGTGATATCGGGGATGAAAGC
 TGGCGCATGATGACCACCGATATGGCCAGTGTGCGCGTCTCCGTTATCGGGGAAGAAGTGGCTGATCTCA
 GCCACCGCGAAAATGACATCAAAAACGCCATTAACTGATGTTCTGGGGAAATATAAATGTCAGGCTCCGT
 TATACACAGCCAGTCTGCAGGTGACCATAGTGACTGGATATGTTGTGTTTTACAGTATTATAGTGTCTG
 TTTTTTATGCAAAATCTAATTTAATATATTGATATTATATCATCTTTACGTTTCTCGTTACGCTTTCTTG
 TACAAGTGGTGATAATTAATTAAGATCTAGAGGGGCCGTTTAAACCCGCTGATCAGCCTCGACTGTGCC
 TTCTAAGATGCAGACATGATAAGATACATTTGATGAGTTTGGACAACCACTAGATAGCATGCAAGTAAAAA
 AATGCTTTATTGTGAATTTGTGATGCTATTGCTTTATTGTGAACCTATTAAAGTGCATTAACAAAGT
 TAACACACAAATTCGATTCATTTTATGTTTCAGGTTTCAGGGGGAGGTGTGGGAGGTTTTTAAAGCAAG
 TAAAACCTCTACAAATGGGTATGGCTGATTATGATCAGCTGCAGCTGCAGGCTTGGCGTAAT
 CATGGTCAATAGCTGTTTCTGCTGTGAAATTTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAG
 CATAAGTGTAAAGCCTGGGGTGCTTAATGAGTGAAGTCACTTAATTCAGTTCGCTGCGCTCAGTCCGCC
 GCTTTCAGTCCGGGAAACCTGTGCTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTT
 TGCGTATTGGCGCTCTCCGCTTCCCTGCTCACTGACTCGTGCCTCGGTCTGCGCTCGGCTCGCGGAGC
 GGTATCAGCTCACTCAAAGCGGTAATACGGTTATCCACAGAATCAGGGGATACGCGAGGAAGAACATG

Fig. 14A

TGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCATAGGCTCC
 GCCCCCTGACGAGCATCACAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAG
 ATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCCTCTCCTGTTCCGACCCCTGCCGCTTACCGGATAC
 CTGTCCGCTTTTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCAGCTGTAGGTATCTCAGTTCCG
 TGTAGTCTGTTCCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCGTTACGCCGACCCGCTCGCGCTTATC
 CGGTAACTATCGTCTTGAGTCCAAACCCGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAAC
 AGGATTAGCAGAGCGAGGTATGTAGCGCGTGCTACAGAGTCTTGAAGTGGTGGCCTAACTACGGCTACA
 CTAGAAGGACAGTATTGGTATCTGCCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTC
 TTGATCCGGCAAAACAAACACCGCTGGTAGCGGTGGTTTTTTTGGTTGCAAGCAGCAGATTACGCCGAGA
 AAAAAAGGATCTCAAGAAGATCCTTTGATCTTTCTACGGGGTCTGACGCTCAGTGGAAACGAAAACTCAC
 GTTAAGGGATTTGGTCTAGAGATTATCAAAAAGGATCTTCACTAGATCCTTTTAAATTAATAATGAAG
 TTTTAAATCAATTAAGTATATATGAGTAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCA
 CCTATCTCAGCGATCTGTCTATTTCGTTCACTCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGA
 TACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGA
 TTTATCAGCAATAAACACAGCCAGCCGGAAGGGCCGAGCGCAGAAAGTGGTCTGCACTTTATCCGCCTCC
 ATCCAGTCTATTAAATGTTGCCGGGAAGCTAGAGTAAGTAGTTCCGCAAGTTAATAGTTTGCGCAACGTTG
 TTGCCATTGCTACAGGCATCGTGGTGTACGCTCGTCGTTGGTATGGCTTCATTACGCTCCGGTTCCCA
 ACGATCAAGGCGAGTTACATGATCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCTCCGATC
 GTTGTGAGAAGTAAGTTGGCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTG
 TCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTAT
 CGCGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGGCCACATAGCAGAATTTAAAA
 GTGCTCATCATTGGAAAAGCTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCCTGTTGAGATCCAGTT
 CGATGTAACCCACTCTGTGCACCAACTGATCTTCAGCATCTTTACTTTTACCAGCGTTTCTGGGTGAGC
 AAAAAACAGGAAGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAATGTTGAATACTCATCTC
 TTCTTTTCAATATATTGAAGCATTATCAGGGTATTGTCTCATGAGCGGATACATATTGAATGTA
 TTTAGAAAAATAACAAATAGGGTTCCGCGCACATTTCCCCGAAAGTGCCACCTGACGCTCTAAGAAAC
 CATTATTATCATGACATTAACTATAAAAAATAGGCGTATCACGAGGCCCTTTCGT

Fig. 14B

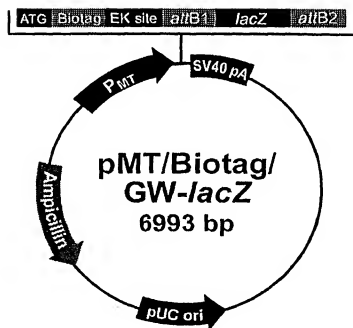


Fig. 15

- Shaded regions correspond to those DNA sequences transferred from the entry clone into the pET104-DEST™ vector by recombination. Non-shaded regions are derived from the pET104-DEST™ vector.
- Bases 568 and 2230 of the pET104-DEST™ sequence are marked.
- The biotin binding site is labeled with a *.

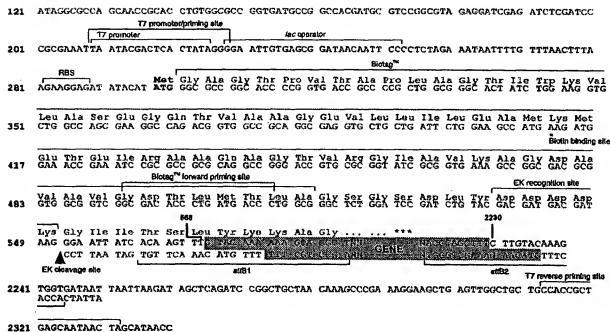


Fig. 16

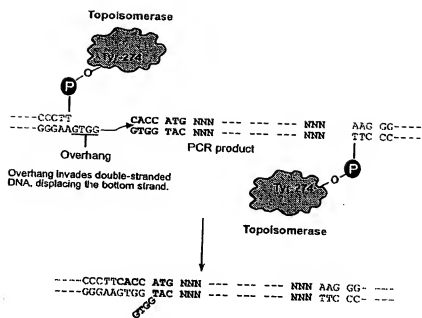


Fig.17

Flow Chart

The flow chart below describes the general steps required to clone and express your blunt-end PCR product.

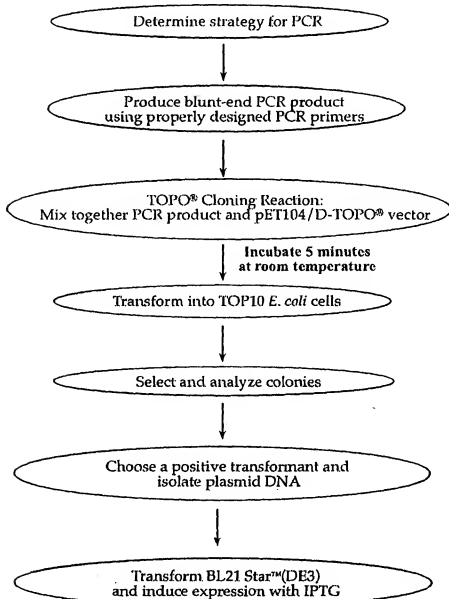


Fig. 18

121 ATAGGCGCCA GCAACCGCAC CTGTGGCGCC GGTGATGCCG GCCACGATGC GTCCGCGGTA GAGGATCGAG ATCTCGATCC
 T7 promoter/priming site
 T7 promoter lac operator

201 CGCGAAATTA ATACGACTCA CTATAGGGGA ATTGTAGCG GATAACAATT CCCCTCTAGA AATAATITTT TTTAACTTTA
 RBS Biolog™

281 AGNAGGAGAT ATACAT ATG GGC GCC GGC ACC CCG GTG ACC GCC CCG CTG GCG GGC ACT ATC TGG AAG GTG
 Met Gly Ala Gly Thr Pro Val Thr Ala Pro Leu Ala Gly Thr Ile Trp Lys Val

351 CTG GCC AGC GAA GGC CAG ACG GTG GCC GCA GGC GAG GTG CTG CTG ATT CTG GAA GCC ATG AAG ATG
 Leu Ala Ser Glu Gly Gln Thr Val Ala Ala Gly Glu Val Leu Leu Ile Leu Glu Ala Met Lys Met
 Biolog™ binding site

417 GAA ACC GAA ATC CGC GGC GCG CAG GCC GGG ACC GTG CCG GGT ATC GCG GTG AAA GCC GGC GAC GCG
 Glu Thr Glu Ile Arg Ala Ala Glu Ala Gly Thr Val Arg Gly Ile Ala Val Lys Ala Gly Asp Ala
 Biolog™ forward priming site

483 GTG GCG GTC GGC GAC ACC CTG ATG ACC CTG GCG GGC TCT GGA TCC GAT CTG TAC GAC GAT GAC GAT
 Val Ala Val Gly Asp Thr Leu Met Thr Leu Ala Gly Ser Gly Ser Asp Leu Tyr Asp Asp Asp Asp
 EK recognition site

549 AAG GGA ATT GAT CCC TTT ACC GGC ACC GGC AAGGCGAGCT CAGATCCGGC TGCTAACRAA GCCCGAAAGG
 Lys Gly Ile Asp Pro Phe Thr
 EK cleavage site T7 reverse priming site

611 AAGCTGAGTT GGCTGCTGCC ACGCTGAGC AATAACTAGC

Fig. 19

- Shaded regions correspond to those DNA sequences transferred from the entry clone into the pcDNA6/Biotag-DEST™ vector by recombination. Non-shaded regions are derived from the pcDNA6/Biotag-DEST™ vector.
- Bases 1191 and 2853 of the pcDNA6/Biotag-DEST™ sequence are marked.
- The biotin binding site is labeled with a *.
- Potential stop codons are underlined.

Fig. 20

Flow Chart

The flow chart below outlines the experimental steps necessary to clone and express your blunt-end PCR product.

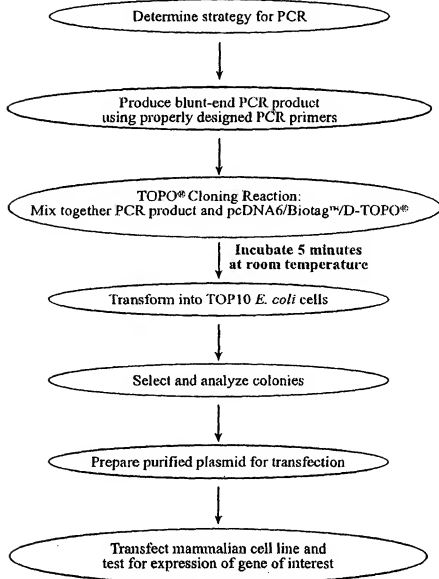


Fig. 21

761 CCCATTGACG CAAATGGGGC GTAGGGCGTGT ACGGTGGGAG GTCATATATA GCGAGCTCT CTGGCTACT AGSNAACCA
 TATA 3' end of CMV promoter Putative transcriptional start
 841 CTGCTTACTG GCTTATCGAA ATTAAATACGA CTCACATATG GGAAGCCCAA GCTGCTAGC GTTTAAACTT AAGCTTACC ATG
 TT promoter/priming site
 923 GGC GGC GGC ACC GCG GTG ACC GGC CCG CTG GCG GCG ACT ACG TCG AAG GTG CTG GCG AGC GAA GCG
 Gly Ala Ser Thr Phe Val Lys Thr Leu Ala Phe Thr Leu Lys Val Leu Ala Ser Glu Gly
 Biotag™
 989 CAG ACG GTG GGC GCA GGC GAG GTG CTG CTG ATT CTG GAA GCC ATG AAG ATG GAA ACC GAA ATC CCG
 Glu Thr Val Ala Ala Gly Glu Val Leu Leu Ile Leu Glu Ala Met Lys Met Glu Thr Glu Ile Arg
 Biotin binding site
 1055 GCC GGC CAG GCC GGG ACG GTG CAG GGT ATT GCG GTT GAA ACC GGC GAC GCG GTG GCG GTG GGC GAC
 Ala Ala Glu Ala Gly Thr Val Arg Gly Ile Ala Val Lys Ala Gln Asp Ala Val Ala Val Glu Gly Asp
 Biotag™ forward priming site Asp7161 KpnI
 1121 CAG CTG ATG ACG CTG CCG GGC TCT GGA TCC GAT CTG TAC GAC GAT GAC GAT AAG GAT CCG ATC
 Thr Leu Met Thr Leu Ala Gly Ser Gly Ser Asp Leu Tyr Asp Asp Rep Asp Lys Val Phe Arg Ile
 EK recognition site XbaI Asp1 EK cleavage site
 1187 GAG TGT GGT GGA ATT GAT CCC TTT GCG GCG TTT AAGGGCG TCGAGTCTAG AGGCCCGGT TAAACCCGT
 Glu Cys Gly Gly Ile Asp Phe Phe Thr Thr Lys
 BGH reverse priming site
 1251 GATCAGCCTC GACTGTGCT TCAATGTGCC AGGCATCTGT TGTTTGCCCC

- Shaded regions correspond to those DNA sequences transferred from the entry clone into the pMT/Biotag™-DEST vector by recombination. Non-shaded regions are derived from the pMT/Biotag™-DEST vector.
- Bases 1135 and 2797 of the pMT/Biotag™-DEST sequence are marked.
- The biotin binding site is labeled with a *.
- Potential stop codons are underlined.

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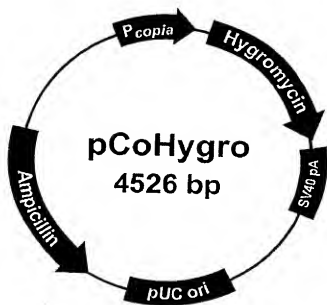


Fig. 24

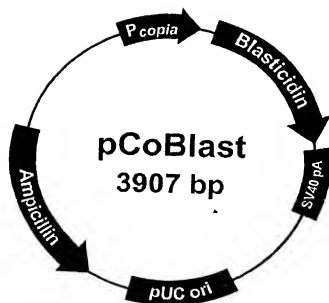


Fig.25